

APPENDIX C.1. STATUS OF ECOLOGICAL EFFECTS DATA REQUIREMENTS.

Data Requirements	Composition ¹	Use Pattern ²	Does EPA Have Data To Satisfy This Requirement? (Yes, No)	Bibliographic Citation	Must Additional Data Be Submitted under FIFRA3(c)(2)(B)?
6 Basic Studies in Bold					
71-1(a) Acute Avian Oral, Quail/Duck	(TGAI)	A,B	No ³	16000000020560	No
71-1(b) Acute Avian Oral, Quail/Duck	(TEP)	A,B	N/A	N/A	No
71-2(a) Acute Avian Diet, Quail	(TGAI)	A,B	Yes	22923	No
71-2(b) Acute Avian Diet, Duck	(TGAI)	A,B	Yes	22923	
71-3 Wild Mammal Toxicity	(TGAI)	A,B	No	4396110105014313	No ⁴
71-4(a) Avian Reproduction Quail	(TGAI)	A,B	No	158333	No
71-4(b) Avian Reproduction Duck	(TGAI)	A,B	Yes	158334	No
71-5(a) Simulated Terrestrial Field Study	(TEP)	A,B	No ⁵	7.46237462475e+34	No
71-5(b) Actual Terrestrial Field Study	(TEP)	A,B	No ⁶	40165901	No ⁷
72-1(a) Acute Fish Toxicity Bluegill	(TGAI)	A,B	Yes	4009800140094602	No
72-1(b) Acute Fish Toxicity Bluegill	(TEP)	A,B	Yes	161823	No
72-1(c) Acute Fish Toxicity Rainbow Trout	(TGAI)	A,B	Yes	40094602	No
72-1(d) Acute Fish Toxicity Rainbow Trout	(TEP)	A,B	Yes	90490161822	No
72-2(a) Acute Aquatic Invertebrate Toxicity	(TGAI)	A,B	No	5017538009784242000000	No
72-2(b) Acute Aquatic Invertebrate Toxicity	(TEP)	A,B	Yes	16182501618260165000	No
72-3(a) Acute Estu/Mari Tox Fish	(TGAI)	A,B	Yes	4022840140001801	No
72-3(b) Acute Estu/Mari Tox Mollusk	(TGAI)	A,B	Yes	40228401	No
72-3(c) Acute Estu.Mari Tox Shrimp	(TGAI)	A,B	Yes	40228401	No
72-3(d) Acute Estu/Mari Tox Fish	(TEP)	A,B	Yes	40001801	No
72-3(e) Acute Estu/Mari Tox Mollusk	(TEP)	A,B	Yes	40004201	No
72-3(f) Acute Estu/Mari Tox Shrimp	(TEP)	A,B	Yes	4180380440001802	No
72-4(a) Early Life-Stage Fish	(TGAI)	A,B	Yes	1583354022840144000000	No
72-4(b) Live-Cycle Aquatic Invertebrate	(TGAI)	A,B	Yes	1.58335422271e+29	No
72-5 Life-Cycle Fish		A,B		----	No ⁸
72-6 Aquatic Org. Accumulation	(TGAI)	A,B	No	----	No ⁹
72-7(a) Simulated Aquatic Field Study	(TEP)	A,B	No	4222710143957801	No ⁷
72-7(b) Actual Aquatic Field Study	(TEP)	A,B	No	----	No
122-1(a) Seed Germ./Seedling Emerg.	(TEP)	A,B	No	---	No
122-1(b) Vegetative Vigor	(TEP)	A,B	No	---	No
122-2 Aquatic Plant Growth	(TEP)	A,B	Yes	40228401	No

Data Requirements	Composition ¹	Use Pattern ²	Does EPA Have Data To Satisfy This Requirement? (Yes, No)	Bibliographic Citation	Must Additional Data Be Submitted under FIFRA3(c)(2)(B)?
123-1(a) Seed Germ./Seedling Emerg.	(TEP)	A,B	No	---	No
123-1(b) Vegetative Vigor	(TEP)	A,B	No	---	No
123-2 Aquatic Plant Growth	(TEP)	A,B	No	---	No
124-1 Terrestrial Field Study	(TEP)	A,B			No
124-2 Aquatic Field Study	(TEP)	A,B			No
141-1 Honey Bee Acute Contact	(TGAI)	A,B	Yes ¹⁰	500199100036935	No
141-2 Honey Bee Residue on Foliage		A,B	No ¹¹	----	No
141-5 Field Test for Pollinators		A,B	No ¹¹	----	No

¹Composition: product TGAI=Technical grade of the active ingredient; PAIRA=Pure active ingredient, radiolabeled; TEP=Typical end-use

²Use Patterns: A=Terrestrial/Food; B=Terrestrial/Feed; C=Terrestrial Non-Food; D=Aquatic Food; E=Aquatic Non-Food (Outdoor); F=Aquatic Non-Food (Industrial); G=Aquatic Non-Food (Residential); H=Greenhouse Food; I=Greenhouse Non-Food; J=Forestry; K=Residential Outdoor; L=Indoor Food; M=Indoor Non-Food; N=Indoor Medical; O=Indoor Residential

³ Although these studies do not fulfill the guideline requirements, because of similarity of results further testing is not expected to add significantly to the database.

⁴ The rat acute oral study submitted for human health database (MRID No. 05014313) and the rat LC₅₀ (1981);MRID No. 43961101) were substituted for 71-3 wild mammal toxicity test.

⁵ These studies are not required because they are usually not sufficient to rebut the presumed risk.

⁶ This field study did not fulfill the guideline requirement because, among other things, the search area was insufficient.

⁷ Additional testing is not required. L.Fisher's Memorandum of October 1992 indicated that the Agency would make risk assessments based on the laboratory data.

⁸ The MATC from the fish early life-stage study shows that phorate is toxic at extremely low concentrations, <190.0 parts per trillion for sheepshead minnow. Therefore, the further testing was not required.

⁹ The bioaccumulation study required by the EFGWB (MRID No. 42701101) was used in lieu of the EEB study 72-6.

¹⁰ These studies are not required for granular formulated products.